File 155:MEDLINE(R) 1966-2001/May W2 (c) format only 2000 Dialog Corporation 27apr01 10:40:25 User208600 Session D1390.1

Ref Items Type RT Index-term
R1 17778 12 *TRANSFERRIN
R2 10525 X DC=D12.776.124.50.800. (TRANSFERRIN)
R3 10525 X DC=D12.776.124.790.223.839. (TRANSFERRIN)
R4 10525 X DC=D12.776.157.890. (TRANSFERRIN)
R5 10525 X DC=D12.776.377.715.182.839. (TRANSFERI
R6 10525 X DC=D12.776.556.901. (TRANSFERRIN)
R7 28 X1 SIDEROPHILIN

DC=D12.776.124.50.800. (TRANSFERRIN)

DC=D12.776.124.790.223.839. (TRANSFERRIN)

DC=D12.776.377.715.182.839. (TRANSFERRIN)

R8 66960 R 13 IRON

R10 1910 B 20 ACUTE-PHASE PROTEINS R9 2785 R 5 RECEPTORS, TRANSFERRIN

RI2 R11 2917 B 11 B-GLOBULINS 47607 B 92 CARRIER PROTEINS

Items Type RT Index-term

R1 57961

12 *GENE EXPRESSION

푾 R2 57961 X DC=G5.331.370. (GENE EXPRESSION) 119527 R 9 PHENOTYPE

쭚 ₽ 590 N 5 AMINO ACID ACTIVATION

R 8 111 N 5 FRAMESHIFTING, RIBOSOMAL 1554 N 4 GENOMIC IMPRINTING

R8 1355 N6 PEPTIDE CHAIN ELONGATION R9 2449 N7 PEPTIDE CHAIN INITIATION R10 917 N6 PEPTIDE CHAIN TERMINATION R11 176 N3 POLARITY OF TRANSLATION

N 15 TRANSCRIPTION, GENETIC

769 "TRANSFERRIN -- GENETICS -- GE" 10525 DC="D12.776.124.50.800."

17778 "TRANSFERRIN"

Set Items S1 17778 S2 769 "T S3 10525 S4 7435 " B" B" S5 13306 S6 27 S3 S7 17 S4 7435 "RECOMBINANT FUSION PROTEINS -BIOSYNTHESIS

13306 "RECOMBINANT PROTEINS -- BIOSYNTHESIS -- BI"

17 S4 AND S3 NOT S6 S3 AND S5

37961 DC="G5.331.370." 34 S3 AND S8 NOT (S6 OR S7)

S10 194 S2 AND EXPRESS? NOT (S6 OR S7) **S11 13 S10 AND PLASMID?**

S12 7 S2 AND PLASMID? NOT (S6 OR S7 OR S11)

S3 AND PLASMID? NOT (S6 OR S7 OR S11 OR S2)

6/6/1 10625460 20401464 Selective gene expression in hepatic tumor with trans-arterial delivery of

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Interlobe communication in 13C-methionine-labeled human transferrin. Jun 18 1996

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Production of lipidated meningococcal transferrin binding protein 2 in Escherichia coli

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A novel iron uptake mechanism mediated by GPI-anchored human p97. Sep 1 1995 6/6/19 08404715 96016189

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Mar 1993 Production of N-terminal and C-terminal human serum transferrin in Escherichia coli

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06389815 90241967 Corporation. All rts. reserv.

Eunk WD; MacGillivray RT; Mason AB; Brown SA; Woodworth RC Department of Biochemistry, University of British Columbia,

in cultured cells and characterization of the recombinant protein.

Expression of the amino-terminal half-molecule of human serum transferrin

Vancouver, Canada.

0006-2960 Journal Code: A0G Biochemistry (UNITED STATES), Feb 13 1990, 29 (6) p1654-60, ISSN

Contract/Grant No.: DK21739, DK, NIDDK-Languages: ENGLISH

oligonucleotide, complementary to the 5' region of human transferrin mRNA, A human liver cDNA library was screened with a synthetic Document type: JOURNAL ARTICLE

region for the signal peptide and the two lobes of transferrin, the 3' the two stop codons was cloned into the expression vector pNUT, such that blot analysis, however, recombinant hTF/2N was undetectable in bacteria introduced after the codon for Asp-337. This fragment was inserted into two mutagenesis in vitro, two translational stop codons and a HindIII site were untranslated region, and a poly(A) tail. By use of oligonucleotide-directed this screen contained part of the 5' untranslated region, the complete coding iron-binding titration, and proton NMR (ABSTRACT TRUNCATED AT urea-PAGE, amino-terminal sequence analysis, UV-visible spectroscopy, Polyanion SI. The purified protein was characterized by NaDodSO4-PAGE, chromatography steps on DEAE-Sephacel, Sephadex G-75, and FPLC on hamster kidney cells containing this hTF/2N-pNUT plasmid secreted up to promoter and the human growth hormone termination sequences. Baby DNA fragment coding for the natural signal sequence, the hTF/2N lobe, and for the expression of recombinant hTF/2N in eukaryotic cells. In this case, a transformed by these plasmids. Concurrently, we developed a plasmid vector As judged by NaDodSO4-polyacrylamide gel electrophoresis and Western different expression vectors that were then introduced into Escherichia coli as ahybridization probe. The full-length human cDNA clone isolated from Recombinant hTF/2N was purified from the medium by successive the expression of hTF/2N was controlled by the mouse metallothionein 20 mg of recombinant hTF/2N per liter of tissue culture medium.

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Structural-functional studies of human transferrin by using in vitro

RC; MacGillivray RT Chow BK; Funk WD; Banfield DK; Lineback JA; Mason AB; Woodworth

Department of Biochemistry, University of British Columbia, Vancouver,

JOURNAL ARTICLE; REVIEW; REVIEW, TUTORIAL (12 Refs.) No.: DK21739, DK, NIDDK Languages: ENGLISH Document type: Current studies in hematology and blood transfusion (SWITZERLAND) 1991, (58) p132-8, ISSN 0258-0330 Journal Code: DWT Contract/Grant

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AND ALEXANDER PROPERTY.

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The soluble transferrin receptor: biological aspects and clinical usefulness as quantitative measure of erythropoiesis [editorial] Jan-Feb 1992

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An overview of iron metabolism at a molecular level. Nov 1989

05788818 90094542 Corporation. All rts. reserv. 9/7/93 DIALOG(R)File 155:MEDLINE(R) (c) format only 2000 Dialog

Hepatocyte differentiation in vitro: initiation of tyrosine aminotransferase

expression in cultured fetal rat hepatocytes Shelly LL; Tynan W; Schmid W; Schutz G; Yeoh GC

Department of Physiology, University of Western Australia, Nedlands. Journal of cell biology (UNITED STATES) Dec 1989, 109 (6 Pt 2) p3403-ISSN 0021-9525 Journal Code: HMV Languages: ENGLISH

iment type: JOURNAL ARTICLE

substantially during culture. TAT activity, synthesis, and mRNA are evident 3 d in culture. Hepatocytes isolated from 15-d gestation fetuses have culture (Yeoh, G. C. T., F. A. Bennett, and I. T. Oliver. 1979. Biochem. J. detected in 19-d, but not 15-d, gestation hepatocytes on the first day of simultaneous increase in all hepatocytes. These results support the proposal in the proportion of hepatocytes expressing the enzyme, rather than a demonstrated that the increase in TAT expression correlated with an increase increase in transcription of the gene. Immunocytochemical studies TAT mRNA in 15- and 19-d gestation hepatocytes is associated with an Transcription measurements in isolated nuclei indicate that the increase in on the first and subsequent days of culture in 19-d gestation hepatocytes. hepatocytes, measured by hybridization with a specific cDNA, increase culture; both can be assayed by days 2 and 3. TAT mRNA levels in these undetectable levels of enzyme activity and synthesis on the first day of TAT expression is barely detectable in 13-d gestation hepatocytes even after rats maintained in culture for 1, 2, or 3 d and exposed to dexamethasone. were determined in hepatocytes isolated from 13-, 15-, and 19-d gestation 180:153-160). In this study enzyme activity, synthesis, and mRNA levels development. It has previously been shown that TAT activity can be mechanisms of tyrosine aminotransferase (TAT) gene expression during letal rat hepatocyte culture system has been used to study the molecular

that a subpopulation of 15-d fetal hepatocytes undergo differentiation in culture with respect to TAT.

9/7/94 DIALOG(R)File 155:MEDLINE(R) (c) format only 2000 Dialog

An overview of iron metabolism at a molecular level 05698479 90039122

Worwood M

HeathPark, Cardiff, UK. Department of Haematology, University of Wales College of Medicine,

ISSN 0954-6820 Journal Code: I2G Languages: ENGLISH Document type: JOURNAL ARTICLE; REVIEW; REVIEW LITERATURE Journal of internal medicine (ENGLAND) Nov 1989, 226 (5) p381-91,

Over the last 10 years there has been steady progress in our understanding of the structure of the iron-binding proteins transferrin and ferritin, and the regulation of synthesis. This review includes a description of gene localization and structure, the regulation of protein synthesis and the developments in understanding of the genetics of these proteins and the iron storage protein ferritin. (94 Refs.) structure of proteins of the transferrin family, the transferrin receptor and the transferrin receptor. In the last few years there have been very rapid

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Transferrin synthesis by inducer T lymphocytes. Mar 1986 10/6/160 06031021 86140739

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The expression of genes coding for positive acute-phase proteins in the reproductive

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Apr 25 1988 Tissue-specificity of liver gene expression: a common liver-specific promoter element 0/6/165 05834200 88233915

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Regulation of rat liver maturation in vitro by glucocorticoids. Jan 1988

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The association of acute phase protein genes with the nuclear matrix of rat liver during experimental inflammation. Jun 13 1986

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Transferrin gene expression and synthesis by cultured choroid plexus epithelial cells. Regulation by serotonin and cyclic adenosine 3',5'-monophosphate. Jun 5 1989

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Segregation of genetic hemochromatosis indexed by latent capacity of transferrin. Sep 1989

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Expression of the chicken transferrin gene in transgenic mice. Sep 1983

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Selective block of albumin gene expression in chick embryo hepatocytes cultured without hormones and its partial reversal by insulin. Dec 25 1983

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Expression of the transferrin gene during development of non-hepatic tissues: level of transferrin mRNA in fetal muscle and adult brain. Jul 18 1984 high

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Jan 1979 Expression of human hepatic genes in mouse hepatoma--human amniocyte hybrids

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cattle race: lowland black-white and lowland red-white. 1978 The relation between transferrin locus and the breeding quality traits of our country

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Expression of human hepatic genes in somatic cell hybrids

Darlington GJ; Rankin JK; Schlanger G

0098-0366 Journal Code: VAJ Somatic cell genetics (UNITED STATES) May 1982, 8 (3) p403-12, ISSN

gene expression was similar when these various cells were fused with the were compared to determine whether or not the pattern of human hepatic albumin, transferrin, and α-fetoprotein. The resulting interspecific hybrids synthesized and secreted several liver-specific gene products including cells, and hepatocytes) were fused to mouse hepatoma cells, HH. HH Four diploid human cell types (lymphocytes, fibroblasts, amniotic fluid Languages: ENGLISH Document type: JOURNAL ARTICLE

> examined, including albumin, \alpha-fetoprotein, ceruloplasmin, transferrin, histogenetic state of the human parental cell type. products and the array of proteins produced are influenced by the suggest that the frequency of hybrid clones expressing human hepatic gene frequency of clones secreting α -1-antitrypsin. The findings reported here while those derived from lymphoblastoid cells and amniocytes had a higher mouse hepatoma line. The expression of six human hepatic genes was series. Hybrids derived from human fibroblasts produced primarily albumin, patterns of expression of human serum proteins differed between the hybrid while α-fetoprotein was not detected in any of the hybrids studied. The l-antitrypsin, and haptoglobin. Albumin was most frequently expressed δ

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Journal Code: CQ4 Expression of the chicken transferrin gene in transgenic mice. McKnight GS; Hammer RE; Kuenzel EA; Brinster RL Cell (UNITED STATES) Sep 1983, 34 (2) p335-41, ISSN 0092-8674

Languages: ENGLISH Document type: JOURNAL ARTICLE

steady state concentrations up to 67 micrograms/ml. Offspring from expression in offspring had increased 2 to 4 fold. expression in offspring was very similar to the parent, but in one line transgenic parents also expressed the chicken gene; in some cases the chicken transferrin mRNA in liver compared to that in other tissues. Chicken gene, and in five mice there was a 5 to 10 fold preferential expression of in most of the mice. Six of the seven mice studied expressed the chicken of the chicken gene had integrated into the genome in a tandem arrangement chicken DNA sequences; restriction mapping indicated that multiple copies transferrin was secreted into the serum of five of the mice, where it reached Approximately 15%-30% of the offspring from the injected eggs carried fertilized mouse eggs, and the eggs were then implanted into foster mothers. The chicken transferrin gene was microinjected into the male pronucleus of

04241223 84073112 Corporation. All rts. reserv. 10/7/189 DIALOG(R)File 155:MEDLINE(R) (c) format only 2000 Dialog

transferred into mice, appear to be expressed according to more normal patterns of tissue distribution [news] Specific expression of transferred genes. Foreign genes, which were

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Expression of chimeric human transferrin genes in vitro. Dec

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complexes. Apr 1992 High-efficiency gene transfer mediated by adenovirus coupled to DNA-polylysine

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A cloned gene for human transferrin. Dec 27 199

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in this region. Dec 15 1991 purification of two liver nuclear factors interacting with the TGTTTGC motif present Characterization of the active part of the human transferrin gene enhancer and

11/7/7 DIALOG(R)File 155:MEDLINE(R) (c) format only 2000 Dialog 07357540 91178851 Corporation. All rts. reserv.

Fischbach K; Lu Y; Tiffany-Castiglioni E; Minter A; Bowman BH; Adrian Expression of chimeric human transferrin genes in vitro

HealthScience Center, San Antonio, Texas 78284. Department of Cellular and Structural Biology, University of Texas

06872, AG, NIA; AG06650, AG, NIA Languages: ENGLISH Document p633-41, ISSN 0360-4012 Journal Code: KAC Contract/Grant No.: AG type: JOURNAL ARTICLE Joumal of neuroscience research (UNITED STATES) Dec 1990, 27 (4)

of shorter TF constructs in vitro and in vivo are discussed transgenic mice. Possible explanations of differences observed in expression constructs were also observed in hepatoma and glioma cell lines, but not in demonstrate cell-specific expression; they were expressed in HeLa cells, a than or equal to 0.622 kb of the 5' regulatory region of the TF gene failed to repression of brain expression, or in both. Smaller constructs containing less the 3.9-kb construct is important either in liver-specific expression or in expression than did glioma cells, suggesting that a DNA region present in 3.9 kb of the 5' region; hepatoma cells demonstrated significantly more in hepatoma and glioma cells transfected with TF chimeric genes containing immunological reaction to TF supplesized by liver. The expression of a series of human chimeric TF septes in glioma cells was compared with sequences of the human TF and VF receptor genes. Human glioma cell li HTB-16 and HTB-17 were shiped to synthesize TF identical in size and were identified by transfected cell studies and a comparison of 5' flanking differentiation, myelmation and neuronal development. In this study, 5' line that does not synthesize TF. High levels of expression of 0.15-kb TF flanking regions of the W gene important in regulating gene expression Evidence exists for unique roles for TF in brain in oligodendrocyte hepatoma and HeLa cells. A'difft ransferrin (TK), a major plasma protein, binds and transports ferric iron. WF receptor genes. Human glioma cell lines gence in transient expression was observed

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transgenic mice. Human transferrin. Expression and iron modulation of chimeric genes in

LK; Walter CA; Eddy CA; Riehl R; Pauerstein CJ; et al Adrian GS; Bowman BH; Herbert DC; Weaker FJ; Adrian EK; Robinson Department of Cellular and Structural Biology, University of Texas Health

p13344-50, ISSN 0021-9258 Journal Code: HIV Contract/Grant No.: AG 06872, AG, NIA; AG 06650, AG, NIA; AG 00165, AG, NIA; + Languages Journal of biological chemistry (UNITED STATES) Aug 5 1990, 265 (22) Science Center, San Antonio 78284.

respond in vivo to cellular signals affecting expression in various tissues and The aim of this study was to characterize human TF gene sequences that Transferrin (TF) is a plasma protein that transports and is regulated by iron. ENGLISH Document type: JOURNAL ARTICLE on administration. Chimeric genes were constructed containing 152,

expressed at high levels in brain and liver, greater than or equal to 1000-fold iron-treated transgenic mice. Transgenic mouse lines carrying human TF accompanied iron administration in both TF(0.67) and TF(1.2)CAT than brain. A significant diminution of CAT enzymatic activity in liver endogenous TF mRNA synthesis, but liver mRNA levels are 10-fold higher higher than tissues such as heart and testes. Liver and brain are major sites of In contrast, transgenes containing TF sequences to -622 or -1152 bp were flanking sequences to -152 bp were expressed poorly in all tissues examined and introduced into the germ line of mice. Transgenes containing TF 5'transferrin by iron and for determining the molecular basis of transferrin chimeric genes will be useful models for analyzing the regulation of human iron overload. Levels of endogenous plasma transferrin also decreased in transgenic mice, mimicking the decrease of transferrin in humans following regulation throughout mammalian development into the aging process. rding region of a reporter gene, CAT (chloramphenicol acetyltransferase), and 1152 base pairs (bp) of the human TF5'-flanking region with the

07343450 90329224 Corporation. All rts. reserv. 11/7/9 DIALOG(R)File 155:MEDLINE(R) (c) format only 2000 Dialog

Expression of chimeric human transferrin genes in transfected human tumor

Science Center, San Antonio 78284. Department of Cellular & Structural Biology, University of Texas Health hian GS; Fischbach K; Lu Y; Gayet O; Rivera E; Bowman BH

SAAS bulletin, biochemistry and biotechnology (UNITED STATES) Jan 1990, 3 p97-101, Journal Code: ALK Contract/Grant No.: AG06872, AG, Languages: ENGLISH Document type: JOURNAL ARTICLE

and characterized the human TF gene. Comparison of promoter regions of TF genes from human, chicken, and mouse reveals a strong nucleotide sequence conservation. This study demonstrates that 5' flanking regions of iron to cells and the prevention of iron toxicity. Our laboratory has cloned transgenic mice and transfected cells. For cell-specific expression, more the TF gene are sufficient for directing expression of a heterologous gene The iron-binding plasma protein transferrin (TF) is essential for supplying 150 base pairs appear to be required.

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metodom priamoi gibridizatsii in situ. Oct 1984 hybridization] Kartirovanie gena transferrina u laboratornykh krys, myshei i cheloveka [Mapping of the transferrin gene in laboratory rats, mice and man by direct in situ

Corporation. All rts. reserv. 12/7/5 DIALOG(R)File 155:MEDLINE(R) (c) format only 2000 Dialog

04609742 84167844

0026-8984 Journal Code: NGX Languages: RUSSIAN Summary Klonirovanie dvunitevoi DNK-transkripta mRNK transferrina krysy. Ryskov AP, Timchenko NA, Timchenko LT, Salikhov TA, Gaitsokhi VS Molekuliamaia biologiia (USSR) Jan-Feb 1984, 18 (1) p104-14, ISSN Languages: ENGLISH Document type: JOURNAL ARTICLE; English [Cloning of double-stranded DNA--a transcript of rat transferrin mRNA]

plasmid DNAs hybridized specifically with rat liver poly(A) + RNA that rat transferrin mRNA as a template, reverse transcriptase and DNA plasmids varied from 150 to 1500 bp. Clones carrying transferrin mRNA as recombinant plasmid derivatives of pBR322. The insert length in these polymerase I. Double-stranded transcripts of transferrin mRNA were cloned pretransferrin in antigenic properties and molecular weight. programmed the cell-free synthesis of a polypeptide identical to polysomal RNA that corresponded to transferrin mRNA in its molecular hybridization with 32P-cDNA probe. Nick-translated DNAs from sequences were identified using colony hybridization and Southern blot weight (0.86 MD). In hybridization selection cell-free translation test cloned transformed clones hybridized with a single component of rat liver Two-stage synthesis of double-stranded DNA was performed using purified

04147103 84194084 Corporation. All rts. reserv. 12/7/6 DIALOG(R)File 155:MEDLINE(R) (c) format only 2000 Dialog

Baldwin WD; Bowman BH Yang F; Lum JB; McGill JR; Moore CM; Naylor SL; van Bragt PH; Human transferrin: cDNA characterization and chromosomal localization.

GM, NIGMS Languages: ENGLISH Document type: JOURNAL Journal Code: PV3 Contract/Grant No.: HD16584, HD, NICHD; GM33298 America (UNITED STATES) May 1984, 81 (9) p2752-6, ISSN 0027-8424 Proceedings of the National Academy of Sciences of the United States of superinfection interference. Mar 2000

shares homologous amino acid sequences with four other proteins: pairs of Tf cDNA analyzed, there is a probable leader sequence encoded by human cDNA encoding Tf have been isolated by screening an adult human and mapping its chromosomal location. Recombinant plasmids containing characterization of the Tf gene by identifying and characterizing its cDNA Antigen p97 and the Tf receptor genes have been mapped on human lactotransferrin, ovotransferrin, melanoma antigen p97, and HuBlym-1 liver library with a mixed oligonucleotide probe. Within the 2.3 kilobase chromosome 3. The goal of the study described here was to initiate the Transferrin (Tf) is the major iron binding protein in vertebrate serum. It

chromosome 3, consistent with linkage of the Tf, Tf receptor, and melanoma

analysis indicate that the Tf gene is located at q21-25 on human Chromosomal mapping by in situ hybridization and somatic cell hybrid possibly reflecting functional constraints associated with iron binding. homologous amino and carboxyl domains have been strongly conserved, amino and carboxyl domains. During evolution, three areas of the 57 nucleotides followed by 2037 nucleotides that encode the homologous

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myshei i cheloveka metodom priamoi gibridizatsii in situ. in situ hybridization] Kartirovanie gena transferrina u laboratornykh krys, [Mapping of the transferrin gene in laboratory rats, mice and man by direct

Genetika (USSR) Oct 1984, 20 (10) p1584-93, ISSN 0016-6758 Journal Baranov VS; Shvartsman AL; Gorbunova VN; Ryskov AP; Timchenko NA

JOURNAL ARTICLE; English Abstract Languages: RUSSIAN Summary Languages: ENGLISH Document type:

and 87 from rat, mouse and man, respectively). The data obtained enable us mouse. For the first time, the rat transferrin gene was localized on to assign transferrin gene to chromosome 3 in human and chromosome 9 in stained chromosomes were determined in 464 metaphase plates (114, 263 nick-translated with [125I]dCTP and used as a specific hybridization probe. technique. Plasmid pRTf-17 carrying the insert of rat transferrin cDNA was chromosomes from bone marrow of laboratory mice and rats as well as from chromosome 7. The most probable sites of transferrin gene localization are The total number of silver grains and their distribution along differentially PHA-stimulated human lymphocytes using direct in situ hybridization Mapping of the gene coding for transferrin was carried out in metaphase 7q31-34, 9F1-3 and 3q21 in rat, mouse and human chromosomes,

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Set Items Description

- 18786 TRANSFERRIN
- S2 S3 766912 PLASMID? OR EXPRESS?
- 2995 SI AND S2

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2 1267 S3 NOT PY=(1992 OR 1993 OR 1994 OR 1995 OR 1996 OR

1998 OR 1999 OR 2000 OR 2001)

- 71493 PLASMID?

SS

- S5 338 S4 NOT RECEPTOR?
 S6 6852 TRANSFERRIN/TI
 S7 93 S5 AND S6
- S9 13 S6 AND S8 NOT PY=(1992 OR 1993 OR 1994 OR 1995 OR 1997 OR -

S10 38 S1 NOT S6 AND PLASMID? NOT RECEPTOR 1997 OR 1998 OR 1999 OR 2000 OR 2001)

NUCLEAR FACTORS INTERACTING WITH THE TGTTTGC MOTIF PRESENT CHARACTERIZATION OF THE ACTIVE PART OF THE HUMAN TRANSFERRIN GENE ENHANCER AND PURIFICATION OF TWO LIVER 07997033 BIOSIS NO: 000093052706

7/6/2 07945448 BIOSIS NO.: 000093024546

IN THIS REGION 1991

EXPRESSION AND INITIAL CHARACTERIZATION OF FIVE SITE-DIRECTED MUTANTS OF THE AMINO TERMINAL HALF-MOLECULE OF HUMAN TRANSFERRIN 1991

7/63 07853913 BIOSIS NO.: 000041103534 HUMAN TRANSFERRIN EXPRESSION OF CHIMERIC GENES IN TRANSGENIC MICE 1991

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7/6/5 07746811 BIOSIS NO.: 000092060532

TRANSFERRIN-DIRECTED AND ALBUMIN-DIRECTED EXPRESSION OF GROWTH-RELATED PEPTIDES IN TRANSGENIC SHEEP 1991 7/6/6 07727807 BIOSIS NO.: 000092052438

EXPRESSION OF TRANSFERRIN MESSENGER RNA IN THE CNS OF

7/6/7 07726266 BIOSIS NO.: 000092050897

NORMAL AND JIMPY MICE 1991

IMMUNOCYTOCHEMICAL LOCALIZATION OF ALBUMIN TRANSFERRIN THE RAT LIVER DIFFERENTIATION 1991 ANGIOTENSINOGEN AND KININOGENS DURING THE INITIAL STAGES OF

7/6/8 07681906 BIOSIS NO.: 000092028827

SERTOLI CELL-SPECIFIC EXPRESSION OF THE HUMAN TRANSFERRIN GENE COMPARISON WITH THE LIVER-SPECIFIC EXPRESSION 1991

7/6/9 07681904 BIOSIS NO.: 000092028825

THE ENHANCER OF THE HUMAN TRANSFERRIN GENE IS ORGANIZED IN TWO STRUCTURAL AND FUNCTIONAL DOMAINS 1991

7/6/10 07634169 BIOSIS NO.: 000092004113
THE DISTRIBUTION OF CEREBRAL EXPRESSION OF THE TRANSFERRIN GENE IS SPECIES SPECIFIC 1991

7/6/11 07623294 BIOSIS NO: 000040123503
CEREBELLAR DEVELOPMENTAL ALTERATION IN APO E AND
TRANSFERRIN GENE EXPRESSION IN PTU-TREATED HYPOTHYROID RATS
1991

7/6/12 07591911 BIOSIS NO.: 000091120/700 THE RELEASE OF IRON AND TRANSFERRIN FROM THE HUMAN MELANOMA CELL 1991

716/13 07543427 BIOSIS NO.: 000091095505 A TRANSFERRIN-LIKE HEMIFERRIN MESSENGER RNA IS EXPRESSED IN THE GERM CELLS OF RAT TESTIS 1991

PACT 4 07519566 BIOSIS NO.: 000091082695
FETAL ALCOHOL DELAYS THE DEVELOPMENTAL EXPRESSION OF MYELIN BASIC PROTEIN AND TRANSFERRIN IN RAT PRIMARY OLIGODENDROCYTE CULTURES 1991

7/6/15 07505259 BIOSIS NO.: 000091079128 VARIATIONS IN THE LEVEL OF TRANSFERRIN AND SGP-2 MESSENGER RNA IN SERTOLI CELLS OF VITAMIN A-DEFICIENT RATS 1991

7/6/16 07432578 BIOSIS NO.: 000091038567 TISSUE SPECIFIC EXPRESSION OF MOUSE TRANSFERRIN DURING DEVELOPMENT AND AGING 1990

7/6/17 07423147 BIOSIS NO.: 000091029136 FERRITIN AND TRANSFERRIN LEVELS IN HUMAN BREAST CYST FLUIDS RELATIONSHIP WITH INTRACYSTIC ELECTROLYTE CONCENTRATIONS 1990

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THE BINDING SITE FOR THE LIVER-SECTIC TRANSCRIPTION FACTOR TFLF1 AND THE TATA BOX OF THE HUMAN TRANSFERRIN GENE
PROMOTER ARE THE ONLY ELEMENTS NECESSARY TO DIRECT LIVERSPECIFIC TRANSCRIPTION IN-VITRO 1990

19 07317375 BIOSIS NO.: 000091004055
NEW EXPRESSIBLE V-H-GENE OF THE 36-60 FAMILY PARTICIPATES IN BIOSYNTHESIS OF ANTIBODIES AGAINST PIG TRANSFERRIN 1990

7/6/20 07319017 BIOSIS NO.: 000090098917 HUMAN TRANSFERRIN EXPRESSION AND IRON MODULATION OF CHIMERIC GENES IN TRANSGENIC MICE 1990

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PERCENT TRANSFERRIN SATURATION IN SEGREGATING
HEMOCHROMATOSIS 1990

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TRANSFERRIN-GENE EXPRESSION IN THE RAT MAMMARY GLAND INDEPENDENCE OF MATERNAL IRON STATUS 1990

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TRANSFERRIN GENE EXPRESSION AND SECRETION BY RAT BRAIN CELLS IN-VITRO 1990

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THE STRUCTURE OF THE EXPRESSIBLE VH GENE FROM A HYBRIDOMA PRODUCING MONOCLONAL ANTIBODIES AGAINST PORCINE TRANSFERRIN 1989

7/6/27 07115437 BIOSIS NO.: 000039052131 EXPRESSION OF HUMAN CHIMERIC TRANSFERRIN GENES 1990

7/6/28 07069370 BIOSIS NO.: 000039006063 REGULATION OF TRANSFERRIN GENE EXPRESSION IN TRANSGENIC MICE 1990

716/29 06988486 BIOSIS NO.: 000089089750
EXPRESSION OF THE AMINO-TERMINAL HALF-MOLECULE OF HUMAN
SERUM. TRANSFERRIN IN CULTURED CELLS AND CHARACTERIZATION
OF THE RECOMBINANT PROTEIN 1990

7/6/30 06973029 BIOSIS NO.: 000089084789
EXPRESSION OF TRANSFERRIN AND VITAMIN D-BINDING PROTEIN GENES IN AN OSTEOGENIC SARCOMA CELL LINE 1990

GENES IN AN OSTEOGENIC SAKCOMA CELL LINE 1990
7/6/31 06889548 BIOSIS NO:: 000089043477
PULMONARY TRANSVASCULAR FLUX OF TRANSFERRIN 1989

7/6/32 06865305 BIOSIS NO.: 000089014895 EXPRESSION FROM THE TRANSFERRIN GENE PROMOTER IN TRANSGENIC MICE 1989

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SEGREGATION OF GENETIC HEMOCHROMATOSIS INDEXED BY LATENT CAPACITY OF TRANSFERRIN 1989

7/6/34 06768565 BIOSIS NO.: 000088077998
IDENTIFICATION OF THE TRANSFERRIN AND LACTOFERRIN-BINDING PROTEINS IN HAEMOPHILUS-INFLUENZAE 1989

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EFFECTS OF IRON OVERLOAD ON TRANSFERRIN SECRETION BY CULTURED FETAL RAT HEPATOCYTES 1989

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TRANSFERRIN GENE EXPRESSION AND SYNTHESIS BY CULTURED CHOROID PLEXUS EPITHELIAL CELLS REGULATION BY SEROTONIN AND CYCLIC AMP 1989

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TESTICULAR TRANSFERRIN AND ANDROGEN-BINDING PROTEIN
EXPRESSION 1989

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CELL TYPE-SPECIFIC EXPRESSION OF THE HUMAN TRANSFERRIN GENE
ROLE OF PROMOTER NEGATIVE AND ENHANCER ELEMENTS 1989

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THE REGULATION OF EXPRESSION OF THE TRANSFERRIN GENE IN BRAIN-DERIVED CELL LINES 1989

7/6/41 06365800 BIOSIS NO.: 000036068953 TRANSFERRIN EVOLUTION AND GENETIC REGULATION OF EXPRESSION 1988

> 7/6/42 06330851 BIOSIS NO.: 000036034004 EXPRESSION OF THE TRANSFERRIN TF GENE IN TRANSGENIC MICE 1988

7/6/43 06264134 BIOSIS NO.: 000086098317 VARIATION OF TRANSFERRIN AND ESTERASE IN SERA OF DOGS 1987

7/6/44 06246102 BIOSIS NO.: 000086080284 INTERACTIONS OF DNA-BINDING PROTEINS WITH THE 5' REGION OF THE HUMAN TRANSFERRIN GENE 1988

7/6/45 06235208 BIOSIS NO.: 000086069390
THE PREPARATION OF POLY-DT-5". TRANSFERRIN CONJUGATES AND HYBRIDIZATION STUDIES WITH POLY-DA-TAILED LINEARIZED PBR322 PLASMID DNA 1988

7/6/46 06227518 BIOSIS NO.: 000086061700 TRANSFERRIN AN EARLY MARKER OF OLIGODENDROCYTES IN CULTURE 1988

7/6/47 06190720 BIOSIS NO.: 000086024902
TRANSFERRIN SECRETION AND HEPATOCYTE PLOIDY ANALYSIS AT THE SINGLE CELL LEVEL USING A SEMI-AUTOMATIC IMAGE ANALYSIS METHOD 1988

7/6/48 06094245 BIOSIS NO.: 000085057394
TRANSFERRIN MESSENGER RNA LEVEL IN THE MOUSE MAMMARY
GLAND IS REGULATED BY PREGNANCY AND EXTRACELLULAR MATRIX
1987

7/6/49 06039094 BIOSIS NO.: 000085002243

MODULATION OF A FETOPROTEIN ALBUMIN AND TRANSFERRIN GENE EXPRESSION BY CELLULAR INTERACTIONS AND DEXAMETHASONE IN COCULTURES OF FETAL RAT HEPATOCYTES 1987

7/6/50 06015917 BIOSIS NO.: 000035107280
EFFECTS OF FE OR TRANSFERRIN TF DEPRIVATION ON HUMAN
LEUKEMIA CELL GENE EXPRESSION 1988

7/6/51 06012387 BIOSIS NO.: 000035103750
LEVELS OF TRANSFERRIN IN SEMINIFEROUS TUBULES OF STAGE SYNCHRONIZED TESTES 1988

7/6/52 05991388 BIOSIS NO.: 000035082751 ANALYSIS OF REGULATORY ELEMENTS FOR THE TISSUE SPECIFIC EXPRESSION OF THE MOUSE TRANSFERRIN GENE 1988

7/6/53 05849292 BIOSIS NO.: 000034072441 HUMAN MACROPHAGE MATURATION IN-VITRO EXPRESSION OF FUNCTIONAL TRANSFERRIN BINDING SITES OF HIGH AFFINITY 1987

7/6/54 05848072 BIOSIS NO.: 000034071221 EXPRESSION OF GENES ENCODING THE VITAMIN D BINDING PROTEIN AND TRANSFERRIN 1987 7/6/55 05810440 BIOSIS NO.: 000034033589 CLONING AND STUDY OF THE TRANSFERRIN GENE IN MOUSE 1987

CECINING PRESENTED TO THE TRANSPORTED TO

7/6/56 05807985 BIOSIS NO.: 000034031134 EXPRESSION OF THE HUMAN TRANSFERRIN TF GENE 1987

7/6/57 05807905 BIOSIS NO.: 000034031054 HUMAN LACTOTRANSFERRIN GENE LOCALIZES TO 3Q21-23 A REGION CONTAINING TRANSFERRIN-RELATED PROTEINS 1987

7/6/58 05751067 BIOSIS NO.: 000084099474
ACTIVATION OF NEUTROPHIL ALKALINE PHOSPHATASE OF CHRONIC MYELOGENOUS LEUKEMIA IN-VITRO LIQUID CULTURE TRANSFERRIN AS A NAP-ACTIVATING FACTOR 1987

7/6/59 05713727 BIOSIS NO.: 000084062133

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CHRONIC EXCESSIVE ALCOHOL INGESTION 1987 DESIALYLATED TRANSFERRIN AS A SEROLOGICAL MARKER OF

TRANSFERRIN GENE EXPRESSION IN CHOROID PLEXUS OF THE ADULT 7/6/60 05686958 BIOSIS NO.: 000084035363

REGULATION IN RAT SERTOLI CELLS 1987 7/6/61 05601989 BIOSIS NO.: 000083075129 TRANSFERRIN MESSENGER RNA MOLECULAR CLONING AND HORMONAL

RAT SERTOLI CELLS AND INTACT SEMINIFEROUS TUBULES 1986 CONTRASTING LEVELS OF TRANSFERRIN GENE ACTIVITY IN CULTURED 7/6/62 05560305 BIOSIS NO.: 000083033445

IN-VIVO VARIATIONS IN THE LEVEL OF TRANSFERRIN AND SGP-2 VESSENGER RNA IN SERTOLI CELLS FROM VITAMIN A DEFICIENT RATS 7/6/63 05326382 BIOSIS NO.: 000032049511 ECTED BY IN-SITU HYBRIDIZATION 1986

HUMAN TRANSFERRIN TF GENE CONSERVED 5' SEQUENCES AND IN-VITRO EXPRESSION 1986 764 05308267 BIOSIS NO.: 000032031396

RAT TRANSFERRIN GENE EXPRESSION TISSUE-SPECIFIC REGULATION BY IRON DEFICIENCY 1986 7/6/65 05203380 BIOSIS NO.: 000082044002

BINDING OF DNA TO ALBUMIN AND TRANSFERRIN MODIFIED BY TREATMENT WITH WATER-SOLUBLE CARBODIIMIDES 1986 7/6/66 05182601 BIOSIS NO.: 000082023222

7/6/67 05162883 BIOSIS NO.: 000082003504 ESTROGEN REGULATION OF THE AVIAN TRANSFERRIN GENE IN TRANSGENIC MICE 1986

REVERSE THE SUPPRESSION OF CELL LINE COLONY FORMATION BY ACTIVITIES DERIVED FROM ESTABLISHED HUMAN MYELOID CELL LINES 7/6/68 05114518 BIOSIS NO.: 000081072642 ACTOFERRIN AND TRANSFERRIN 1986

7/6/69 05073284 BIOSIS NO.: 000081031408 STUDY OF THE MICROHETEROGENEITY OF TRANSFERRIN IN RHOTIC PATIENTS 1985

OF THE RAT BRAIN BY USING IN-SITU HYBRIDIZATION AND TRANSFERRIN GENE EXPRESSION VISUALIZED IN OLIGODENDROCYTES /6/70 05065078 BIOSIS NO.: 000081023202

IMMUNOHISTOCHEMISTRY 1985

SYSTEMS IN THE LOCAL DUBENSKO SHEEP VARIETY 1985 A STUDY OF THE 7/6/71 05045557 BIOSIS NO.: 000081003681 TRANSFERRIN AND HEMOGLOBIN POLYMORPHIC

TRANSFERRIN GENE EXPRESSION VISUALIZED IN SERTOLI CELLS OF THE RAT BY USING IN-SITU HYBRIDIZATION 1986 7/6/72 04988436 BIOSIS NO.: 000031063568

A-1 ANTITRYPSIN TRANSFERRIN ALKALINE PHOSPHATASE PHOSPHOHEXOSE ISOMERASE AND GAMMA GLUTAMYLTRANSFERASE IN BREAST CYST FLUID 1985 7/6/73 04756860 BIOSIS NO.: 000080059987

CHOROID PLEXUS OF RAT BRAIN HIGH PREALBUMIN AND TRANSFERRIN MESSENGER RNA LEVELS IN THE 7/6/74 0471 2089 BIOSIS NO.: 0000800 15215

1/6/75 04663668 BIOSIS NO.: 000079076705

MAPPING OF THE TRANSFERRIN GENE IN LABORATORY RATS AND MICE AS WELL AS IN MAN BY DIRECT IN-SITU HYBRIDIZATION 1984

THE ABILITY OF INTRASPECIES AND INTERSPECIES HYBRID CELLS OF MOUSE HEPATOMA 22A TO SYNTHESIZE SERUM PROTEINS ALBUMIN AND TRANSFERRIN 1984 7/6/76 04597954 BIOSIS NO.: 000079010991

DURING DEVELOPMENT OF THE RAT AND THE MOUSE 1984 7/6/77 04531650 BIOSIS NO.: 000029054687
EXPRESSION OF THE GENES OF TRANSFERRIN AND ALDOLASE B

IN FETAL MUSCLE AND ADULT BRAIN 1984 EXPRESSION OF THE TRANSFERRIN GENE DURING DEVELOPMENT OF NONHEPATIC TISSUES HIGH LEVEL OF TRANSFERRIN MESSENGER RNA 7/6/78 04361908 BIOSIS NO.: 000078091453

TRANSFERRIN MESSENGER RNA 1984 CLONING OF DOUBLE STRANDED DNA TRANSCRIBED FROM RAT 7/6/79 04313739 BIOSIS NO.: 000078043282

SECRETED BY RAT SERTOLI CELLS PURIFICATION AND CHARACTERIZATION OF TESTICULAR TRANSFERRIN 7/6/80 04285730 BIOSIS NO.: 000078015272

EXPRESSION OF THE CHICKEN TRANSFERRIN GENE IN TRANS GENIC 7/6/81 04208930 BIOSIS NO.: 000077034974

TRANSFERRIN COMPLEMENTARY DNA 1984 IDENTIFICATION CHARACTERIZATION AND MAPPING HUMAN 7/6/82 04136239 BIOSIS NO.: 000027045791

THERMODYNAMIC BINDING CONSTANTS FOR GALLIUM TRANSFERRIN 7/6/83 03973686 BIOSIS NO.: 000076059252

7/6/84 03829765 BIOSIS NO.: 000075007838 CORRELATION OF GROWITH RATE WITH CHANGES IN SERUM TRANSFERRIN CONCENTRATIONS IN GROWING BULLS 1982 7/6/85 03633781 BIOSIS NO.: 000074049358

GLOBULIN FETUIN ALBUMIN AND TRANSFERRIN ARE PRESENT IN NATURAL ANTIBODIES AGAINST TUBULIN ACTIN MYO GLOBIN THYRO EXPRESSION OF A HIGH AFFINITY MECHANISM FOR ACQUISITION OF TRANSFERRIN IRON BY NEISSERIA-MENINGITIDIS 1982 7/6/86 03552202 BIOSIS NO.: 000073055283

MULTIPLE MYELOMA AND WALDENSTROMS MACRO GLOBULINEMIA NORMAL HUMAN SERA AND MONO CLONAL IMMUNO GLOBULINS FROM MAY EXPRESS SIMILAR ANTIBODY SPECIFICITIES 1981 TRANSFERRIN CATABOLISM IN MAMMALIAN SPECIES OF DIFFERENT 7/6/87 03039988 BIOSIS NO.: 000070065606

BODY SIZES 1980

DEFICIENCY 1980 TRANSFERRIN GENE EXPRESSION REGULATION OF MESSENGER RNA TRANSCRIPTION IN CHICK LIVER BY STEROID HORMONES AND IRON 7/6/88 02956320 BIOSIS NO.: 000069064438

DEFICIENCY 1980 TRANSFERRIN GENE EXPRESSION EFFECTS OF NUTRITIONAL IRON 1/6/89 02956319 BIOSIS NO.: 000069064437

TRANSFERRIN THE BLOOD SERUM OF CALVES EXPERIMENTALLY BEHAVIOR OF MORPHOTIC BLOOD ELEMENTS AND LEVELS OF IRON AND INFECTED WITH FASCIOLA-HEPATICA TREMATODA 1978 7/6/90 02627711 BIOSIS NO.: 000067015771

> CHICK LIVER AND OVIDUCT 1978 OF THE TRANSFERRIN GENE A COMPARISON OF THE RESPONSE IN THE ACTION OF ESTROGEN AND PROGESTERONE ON THE EXPRESSION 7/6/91 02482152 BIOSIS NO.: 000066064704

CARBOHYDRATE CHAIN DIFFERENCES 1977 OVO TRANSFERRIN SUBFRACTIONATION DEPENDENT UPON 7/6/92 02355724 BIOSIS NO.: 000065012743 7/6/93 00308946 BIOSIS NO.: 000050123946

ABNORMAL EXPRESSION OF NORMAL TRANSFERRIN ALLELES IN

7/7/2 DIALOG(R)File 5:Biosis Previews(R) (c) 2001 BIOSIS. All rts.

AUTHOR: WOODWORTH R C; MASON A B; FUNK WD; DIRECTED MUTANTS OF THE AMINO TERMINAL HALF-EXPRESSION AND INITIAL CHARACTERIZATION OF FIVE SITE-07945448 BIOSIS NO.: 000093024546 MOLECULE OF HUMAN TRANSFERRIN

JOURNAL: BIOCHEMISTRY 30 (45). 1991. 10824-10829. 1991 FULL AUTHOR ADDRESS: DEP. BIOCHEM., UNIV. VERMONT COLL. MACGILLIVRAY RT A JOURNAL NAME: Biochemistry CODEN: BICHA RECORD TYPE: MED., BURLINGTON, VERMONT 05482-0068.

cells and purified to homogeneity. Expression levels and overall yields spectrometry, agree with theory, except for the D63C mutant, which sequence. Their molecular masses, determined by electrospray mass based on mutations observed in a variety of transferrins of known question. The mutants are D63S, D63C, G65R, K206Q, and H207E and are human serum transferrin have been expressed in baby hamster kidney coordinated by two tyrosyl side chains. or Ga(III). These results suggest that in all cases the bound metal ion is very similar changes in extinction coefficients at 240 nm on binding Fe(III) very similar visible molar extinction coefficients for the iron complex and studied. All mutants reported, in addition to the wild-type protein, exhibit blue shift, but its affinity for iron is the greatest of all of the mutants the affinity for iron, and increasing the formal negative charge shifts the visible spectral maximum of the iron complex toward the blue and reduces reduction of formal negative charge within the binding cleft shifts the G65R .mchlt. wild type .ltoreq. H207E .mchlt. K206Q. In general, affinities; qualitatively, in increasing order D63S .apprxeq. D63C appears to be cysteinylated. All mutants bind iron but with varying varied considerably from the wild-type protein, depending on the mutant ABSTRACT: Five site-directed mutants of the N-terminal half-molecule of Abstract LANGUAGE: ENGLISH K206Q mutant is exceptional inasmuch as its visible maximum shows a visible maximum toward the red and increases the affinity for iron. The .apprxeq. 5

7/7/3 DIALOG(R)File 5:Biosis Previews(R) (c) 2001 BIOSIS. All rts.

HUMAN TRANSFERRIN XPRESSION OF CHIMERIC GENES 07853913 BIOSIS NO.: 000041103534 TRANSGENIC MICE

AUTHOR ADDRESS: DEP. CELLULAR STRUCTURAL BIOL. UNIV K; WALTER C A; WEAKER F J; YANG F; BOWMAN B H AUTHOR: ADRIAN G S; HERBERT D C; ROBINSON L K; ADRIAN E JOURNAL: ALBERTINI, A., ET AL. (ED.). CURRENT STUDIES IN HEMATOLOGY AND BLOOD TRANSFUSION, NO. 58. BIOTECHNOLOGY OF PLASMA PROTEINS: HEMOSTASIS, ANTONIO, TEX. 78284, USA. TEXAS HEALTH SCI. CENTER, 703 FLOYD CURL DR., SAN

BASEL, SWITZERLAND; NEW YORK, NEW YORK, USA ILLUS. FLORENCE, ITALY, APRIL 9-11, 1990. IX+215P. S. KARGER AG: SYMPOSIUM ON BIOTECHNOLOGY OF PLASMA PROTEINS, ISBN 3-8055-5250-5. 0 (0). 1991. 104-108. 1991 CODEN: CSHTE THROMBOSIS AND IRON PROTEINS; INTERNATIONAL RECORD TYPE: Citation LANGUAGE: ENGLISH

7/7/8 DIALOG(R)File 5:Biosis Previews(R) (c) 2001 BIOSIS. All rts.

07681906 BIOSIS NO.: 000092028827

SERTOLI CELL-SPECIFIC EXPRESSION OF THE HUMAN TRANSFERRIN GENE COMPARISON WITH THE LIVER-SPECIFIC EXPRESSION

AUTHOR: GUILLOU F; ZAKIN M M; PART D; BOISSIER F; SCHAEFFER E

JOURNAL NAME: Journal of Biological chemistry CODEN: JBCHA AUTHOR ADDRESS: LABORATOIRE D'EXPRESSION DES ARYOTES, INSTITUT PASTEUR, 75724 PARIS CEDEX 15, FR. RNAL: J BIOL CHEM 266 (15). 1991. 9876-9884. 1991 FULL

transfection experiments of primary cultured rat Sertoli cells compared with enhancer regions involved in the liver-specific expression of the gene. By proximal promoter elements control tissue-specific expression. Liverin the distal promoter in both tissues. However different combinations of types, different nuclear factors appear to bind to a DNA domain crucial for enhancer functional in Hep3B cells is inactive in Sertoli cells; in the two cel analyzed 3.6 kilobase pairs of the Tf regulatory region. The far upstream We have previously identified the elements of the promoter, negative, and gene in two tissues, liver and testis, where Tf is expressed at various levels acting elements governing the expression of the human transferrin (Tf) RECORD TYPE: Abstract LANGUAGE: ENGLISH specific transcription is governed by the interaction of the Tf-LF1 protein enhancer activity. Similar negative- and positive-acting elements are present hepatoma cells, DNase I footprinting, and gel retardation studies, we have ABSTRACT: We present a comparative study of the cis- and trans-

proximal sites regulates testis-specific expression. activity, suggesting that the balance of three factors binding to the 34 to -18 TATA box-binding factor is sufficient to initiate basalevel transcription. Efficient expression is achieved by the association of two dition of a third adjacent element decreases the promoter tors binding either to the (-82, -1) or to the (-153, -52) region. The

and a C/EBP-related factor with the -125 to -45 region. In Sertoli cells, a -

7/7/9 DIALOG(R)File 5:Biosis Previews(R) (c) 2001 BIOSIS. All rts.

07681904 BIOSIS NO.: 000092028825

ORGANIZED IN TWO STRUCTURAL AND FUNCTIONAL DOMAINS THE ENHANCER OF THE HUMAN TRANSFERRIN GENE IS AUTHOR: BOISSIER F; AUGE-GOUILLOU C; SCHAEFFER E; ZAKIN

RECORD TYPE: Abstract LANGUAGE: ENGLISH JOURNAL NAME: Journal of Biological Chemistry CODEN: JBCHA JOURNAL: J BIOL CHEM 266 (15). 1991. 9822-9828. 1991 FULL EUCARYOTES, INSTITUT PASTEUR, 75724 PARIS CEDEX 15, FR AUTHOR ADDRESS: LABORATOIRE D'EXPRESSION DES GENE

7/7/18 DIALOG(R)File 5:Biosis Previews(R) (c) 2001 BIOSIS. All rts.

07377665 BIOSIS NO.: 000091004345

FACTOR TF-LFI AND THE TATA BOX OF THE HUMAN NECESSARY TO DIRECT LIVER-SPECIFIC TRANSCRIPTION IN TRANSFERRIN GENE PROMOTER ARE THE ONLY ELEMENTS THE BINDING SITE FOR THE LIVER-SPECIFIC TRANSCRIPTION

EUCARYOTES, INST. PASTEUR, 28 RUE DU DOCTEUR ROUX JOURNAL NAME: Nucleic Acids Research CODEN: NARHA RECORD JOURNAL: NUCLEIC ACIDS RES 18 (19). 1990. 5717-5722. 1990 FULL 75724 PARIS CEDEX 15, FRANCE. AUTHOR ADDRESS: LAB. D'EXPRESSION DES GENES AUTHOR: MENDELZON D; BOISSIER F; ZAKIN M M

genes, the number of elements necessary to confer tissue specificity is protein, similar to C/EBP, is needed. Thus, as described for other hepatic direct hepatic-specific expression, and the binding of at least one more transient expression experiments, in which Tf-LF1 binding alone cannot to a promoter in vitro. This results contrast with observations made in LF-A1, in that it is sufficient to confer liver-specific transcriptional activity Tf-LF1 behaves as other previously described proteins, HNF-1, DBP and only elements needed to direct hepatic-specific transcription in vitro. Thus TATA box and a binding site for the liver-specific protein Tf-LF1 are the site-directed mutagenesis, and 5' deletion analysis have demonstrated that a the human transferrin gene promoter. Results of competition experiments TYPE: Abstract LANGUAGE: ENGLISH different in vivo and in vitro. ABSTRACT: We have studied the liver-specific transcriptional activity of

7/7/20 DIALOG(R)File 5:Biosis Previews(R) (c) 2001 BIOSIS. All rts

OF CHIMERIC GENES IN TRANSGENIC MICE 07319017 BIOSIS NO.: 000090098917 J; ADRIAN E K; ROBINSON L K; WALTER C A; EDDY C A; RIEHL AUTHOR: ADRIAN G S; BOWMAN B H; HERBERT D C; WEAKER F HUMAN TRANSFERRIN EXPRESSION AND IRON MODULATION

AUTHOR ADDRESS: DEP. CELLULAR STRUCTURAL BIOL., UNIVERSITY TEXAS HEALTH SCI. CENTER, SAN ANTONIO, TEXAS 78284.

RECORD TYPE: Abstract LANGUAGE: ENGLISH JOURNAL: J BIOL CHEM 265 (22). 1990. 13344-13350. 1990 FULL JOURNAL NAME: Journal of Biological Chemistry CODEN: JBCHA

gene, CAT (chloramphenicol acetyltransferase), and introduced into the high levels in brain and liver, .gtoreq. 1000-fold higher than tissues such germ line of mice. Transgenes containing TF 5'-flanking sequences to -152 expression in various tissues and to iron administration. Chimeric is regulated by iron. The aim of this study was to characterize human mRNA synthesis, but liver mRNA levels are 10-fold higher than brain as heart and testes. Liver and brain are major sites of endogenous TF transgenes containing TF sequences to -622 or -1152 bp were expressed bp were expressed poorly in all tissues examined. In contrast, the human TF 5'-flanking region with the coding region of a reporter genes were constructed containing 152, 622, and 1152 base pairs (bp) of TF gene sequences that respond in vivo to cellular signals affecting transgenic mice, minicking the decrease of transferrin in humans following accompanied iron administration in both TF(0.67) and TF(1.2)CAT A significant diminution of CAT enzymatic activity in liver ABSTRACT: Transferrin (TF) is a plasma protein that transports and

> transferrin regulation throughout mammalaian development into the aging process.

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07235237 BIOSIS NO.: 000090015110

TRANSFERRIN GENE EXPRESSION AND SECRETION BY RAT BRAIN CELLS IN-VITRO

COLE R; DE VELLIS J AUTHOR: ESPINOSA DE LOS MONTEROS A; KUMAR S; SCULLY S;

ROOM 68-177 NPI, LOS ANGELES, CALIF. 90024. MENTAL RETARDATION RES. CENTER, 760 WESTWOOD PLAZA, AUTHOR ADDRESS: UNIVERSITY CALIFORNIA AT LOS ANGELES

RECORD TYPE: Abstract LANGUAGE: ENGLISH JOURNAL: J NEUROSCI RES 25 (4). 1990. 576-580. 1990 FULL JOURNAL NAME: Journal of Neuroscience Research CODEN: JNRED

synthesize and secrete Tf under cell culture conditions. However, oligodendrocytes, astrocytes, and neurons. However, oligodendrocytes and were used as negative controls. We found that Tf mRNA is present in gene expression and synthesis by neural cells in vitro. For this purpose, we marker for oligodendrocytes. The present work addresses the issue of Tf primary glial cultures that transferrin (Tf) is an early developmental epigenetic factors, such as hydrocortisone, may repress the expression of Tf mRNA. If mRNA levels in astrocyte cultures appeared to be under astrocytes, but not neurons, were shown to synthesize and secrete Tf. astrocytes and oligodendrocytes. Cultured fibroblasts and C6 glioma cells used rat embryonic neuronal cultures and newborn glial cultures of ABSTRACT: We have previously shown by immunocytochemistry in rat ın astrocytes in vivo. hormonal control since hydrocortisone markedly reduced message levels. Neither fibroblasts nor C6 glioma cells expressed detectable amounts of Tf These results show that both astrocytes and oligodendrocytes can

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07069370 BIOSIS NO.: 000039006063

REGULATION OF TRANSFERRIN GENE EXPRESSION IN

AUTHOR ADDRESS: DEP. CELLULAR STRUCTURAL BIOL., UNIV. TEXAS HEALTH SCI. CENTER, SAN ANTONIO, TEX. AUTHOR: HERBERT D C; SHERIDAN P J; WEAKER F J; WALTER C PENNSYLVANIA, USA, APRIL 22-25, 1990. ANAT REC A; ADRIAN G S; BOWMAN B H RECORD TYPE: Citation LANGUAGE: ENGLISH THE AMERICAN ASSOCIATION OF ANATOMISTS, PHILADELPHIA JOURNAL: ONE HUNDRED AND THIRD ANNUAL MEETING OF TRANSGENIC MICE 226 (4), 1990, 43A, 1990 CODEN: ANREA DOCUMENT TYPE: Meeting

7/7/29 DIALOG(R)File 5:Biosis Previews(R) (c) 2001 BIOSIS. All rts.

06988486 BIOSIS NO.: 000089089750

CHARACTERIZATION OF THE RECOMBINANT PROTEIN S A; WOODWORTH R C AUTHOR: FUNK W D; MACGILLIVRAY R T A; MASON A B; BROWN HUMAN SERUM TRANSFERRIN IN CULTURED CELLS AND EXPRESSION OF THE AMINO-TERMINAL HALF-MOLECULE OF

AUTHOR ADDRESS: DEPARTMENT OF BIOCHEMISTRY, JOURNAL: BIOCHEMISTRY_22(6), 1990/1654-1660. 1990 FULL UNIVERSITY OF BRITISH COLUMBIA, COLUMBIA V6T 1W*8:* VANCOUVER, BRITISH

IOURNAL NAME: Biochemistry

of human transferrin by iron and for determining the molecular basis of in iron-treated transgenic mice. Transgenic mouse lines carrying human iron overload. Levels of endogenous plasma transferrin also decreased

TF chimergic genes will be useful models for analyzing the regulation

oligonucleotide-directed mutagenesis in vitro, two translational stop codons transferrin, the 3' untranslated region, and a poly(A) tail. By use of complete coding region for the signal peptide and the two lobes of oligonucleotide, complementary to the 5' region of human transferrin coding for the natural signal sequence, the hTF/2N lobe, and the two stop Concurrently, we developed a plasmid vector for the expression of recombinant hTF/2N in eukaryotic cells. In this case, a DNA fragment gel electrophoresis and Western blot analysis, however, recombinant introduced into Escherichia coli. As judged by NaDoSO4-polyacrylamide fragment was inserted into two different expression vectors that were then and a HindIII site were introduced after the codon for Asp-337. This isolated from this screen contained part of the 5' untranslated region, the mRNA, as a hybridization probe. The full-length human cDNA clone ABSTRACT: A human liver cDNA library was screened with a synthetic CODEN: BICHA RECORD TYPE: Abstract LANGUAGE: ENGLISH protein. Addition of m-fluorotyrosine to the culture medium resulted in urea-PAGE, amino-terminal sequence analysis, UV-visible spectroscopy, Polyanion SI. The purified protein was charcterized by NaDodSO4-PAGE, chromatography steps on DEAE-Sephacel, Sephadex G-75, and FPLC on Recombinant hTF/2N was purified from the medium by successive 20 mg of recombinant hTF/2N per liter of tissue culture medium. hTF/2N was undectable in bacteria transformed by these plasmids. random incorporation of this amino acid into cellular protein in lieu of half-molecule, but to show a higher degree of monodispersity than the latter hTF/2N appeared to behave identically with the proteolytically derived iron-binding titration, and proton NMR. By these criteria, the recombinant hamster kidney cells containing this hTF/2N-pNUT plasmid secreted up to promoter and the human growth hormone termination sequences. Baby tyrosine. Purified recombinant 19F-Tyr hTF/2N gave four well-resolved 19F NMR resonances of 20-40 Hz line width, two with suggestions of sion of hTF/2N was controlled by the mouse metallothionein was cloned into the expression vector pNUT, such that the

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06973029 BIOSIS NO.: 000089084789

EXPRESSION OF TRANSFERRIN AND VITAMIN D-BINDING ITEIN GENES IN AN OSTEOGENIC SARCOMA CELL LINE HOR: ADRIAN G S; YANG F; GRAVES D T; BUCHANAN J M; ROWMAN R H

-3 and +50 kb in

the 5'-flanking region of the mTf gene promoter.

AUTHOR ADDRESS: DEP. CELLULAR STRUCTURAL BIOL., UNIV. TEX. HEALTH SCI. CENT. SAN ANTONIO, TEX. 78284.

JOURNAL: EXP CELL RES 186 (2), 1990. 383-389. 1990 FULL JOURNAL NAME: Experimental Cell Research CODEN: ECREA RECORD TYPE: Abstract LANGUAGE: ENGLISH ABSTRACT: Expression of genes encoding trusferrin and the vitamin D-binding protein is described in a cell line, U-2 OS, derived from a human osteogenic sarcoma. The mRNA transcripts of transferrin and vitamin D-binding protein were shown to be the lengths of those found in normal human liver. The cells synthesize and secrete the transferrin and vitamin D-binding proteins, in addition to human albumin and ceruloplasmin. The U-2 OS cells were successfully transfected with chimeric genes carrying 670 bp of the 5' regulatory sequence of the human transferrin gene fused to a reporter chloramphenical acetyltransferase gene. These data indicate that

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plasma proteins are produced by U-2 OS nuclei and that the U-2 OS cell

ine will be useful for studies analyzing regulation of these genes.

the appropriate transcriptional factors required for expression of four

06865305 BIOSIS NO.: 000089014895 expression resembling endogenous transferrin gene expression. Deletion major product in liver and secreted into the plasma. To study the tissue-RECORD TYPE: Abstract LANGUAGE: ENGLISH JOURNAL: MOL CELL BIOL 9 (11). 1989. 5154-5162. 1989 FULL AUTHOR: IDZERDA R L; BEHRINGER R R; THEISEN M; of expression was observed in transgenic mice harboring the -3-kb mTfsequences to produce the -3-kb mTf-hGX construct. A liver-specific pattern produce activity growth hormone was fused to the -3- to +50-kb transferrin normally low levels of expression of the endogenous transferrin gene in endogenous transferrin and albumin genes in liver and also stimulated the circulating hGH in these transgenic mice specifically induced the or -139 construct. Further studies indicated that the high levels of gave higher levels of mRNA in nonhepatic tissues than did either the -581 fusion constructs containing -3 kilobase pairs (kb) of 5'-flanking sequence element between -139 and +50 and suggest the presence of a distal element These results demonstrate the presence of a liver-specific transcriptional liver specificity, but the magnitude of expression decreased severalfold to -139 base pairs of 5'-flanking sequence gave a construct which retained the transferrin gene was sufficient to direct a high level of liver-specific transgenic mice. A deletion construct containing the -581 to +50 region of ligated to the human growth hormone (hGH) gene and used to produce containing the transferrin gene promoter and 5'-flanking sequences were S1 nuclease mapping of the transcriptional start site. Fusion genes (mTf) gene was cloned and characterized by partial sequence analysis and specific regulatory regions of this gene, the genomic mouse transferrin ABSTRACT: Transferrin is an iron-binding protein that is expressed as a JOURNAL NAME: Molecular and Cellular Biology CODEN: MCEBD WASHINGTON, SEATTLE, WASHINGTON 98195. AUTHOR ADDRESS: DEP. PHARMACOL., SCH. MED., UNIV. HUGGENVIK J I; MCKNIGHT G S; BRINSTER R L TRANSGENIC MICE EXPRESSION FROM THE TRANSFERRIN GENE PROMOTER IN hGX construct, and this mutated transgene was shown to be induced fourbrain, heart, kidney, and muscle. A mutated hGH gene that does not between -581 and -139 that can further increase expression. Surprisingly, to sevenfold by either bovine or human growth hormone. These results demonstrate the presence of a growth hormone-responsive element between

7/7/36 DIALOG(R)File 5:Biosis Previews(R) (c) 2001 BIOSIS. All rts.

06728285 BIOSIS NO.: 000088037711
TRANSFERRIN GENE EXPRESSION AND SYNTHESIS BY
CULTURED CHOROID PLEXUS EPITHELIAL CELLS REGULATION
BY SECTIONIN AND CYCLIC AMP
OF TRANSFER AND SYNTHES AND SECTION OF THE SYNTHESIS BY SANDEDS BY SELECT STATEMENT OF THE SYNTHESIS AND SECTION OF TH

AUTHOR: TSUTSUMI M; SKINNER M K; SANDERS-BUSH E AUTHOR ADDRESS: DEP. PHARMACOL. AND PSYCHIATRY, VANDERBILT UNIV. SCH. MED., NASHVILLE, TENN. 37232. VORNAL: J BIOL CHEM 264 (16). 1989. 9626-9631. 1989 FULL JOURNAL. J BIOL CHEM 264 (16). 1989. 9626-9631. 1989 FULL JOURNAL NAME: Journal of Biological Chemistry CODEN: JBCHA RECORD TYPE: Abstract LANGUAGE: ENGLISH ARCORD TYPE: Abstract LANGUAGE: ENGLISH ARCORD TYPE: Abstract LANGUAGE: ENGLISH were established and used to investigate the role of the choroid plexus in the synthesis and secretion of transferrin. Transferrin gene expression was determined by a Northern blot analysis with a transferrin cRNA probe. A single transferrin mRNA species was detected and found to be the same size as the transcripts in the liver and Scrtoli cells. Immunoprecipitation of radiolabeled secreted proteins with an antiserum transferrin antibody demonstrated that cultured choroid plexus epithelial cels synthesize and secrete a 70-kDa species of transferrin. Levels of transferrin secretion by

rat choroid plexus epithelial cells in culture were measured by radioimmunoassay. Treatment of the choroid plexus epithelial cells in culture with cell-permeable cAMP analogs or serotonin led to time- and concentration-dependent changes in the levels of transferrin in the medium. Dibutyryl-cAMP and 8-bromo-cAMP decreased the levels of transferrin synthesized and secreted by choroid plexus epithelial cells with an EC50 value of 30 nM. Serotonin, however, increased the levels of transferrin with an EC50 value of 100 nM. A concomitant change in transferrin mRNA concentrations was observed in response to serotonin. These data suggest that the synthesis of transferrin by the choroid plexus is reciprocally regulated by the neurotransmitter serotonin and by regulatory agents coupled to adenylate cyclase. Regulatory agents such as serotonin may have a critical role in modulating the proteins synthesized by the choroid plexus, thereby influencing the composition of the cerebrospinal fluid

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06330851 BIOSIS NO.: 000036034004

EXPRESSION OF THE TRANSFERRIN TF GENE IN TRANSGENIC MICE

AUTHOR: YANG F, ADRIAN G S; RIEHL R M; HERBERT D C; WEAKER F J; ROBINSON L K; EDDY C A; PAUERSTEIN C J; BOWMAN B H

AUTHOR ADDRESS: UNIV. TEXAS HEALTH SCI. CENT. SAN ANTONIO, TEX. 78284.

JOURNAL: 39TH ANNUAL MEETING OF THE AMERICAN SOCIETY OF HUMAN GENETICS, NEW ORLEANS, LOUISIANA, USA, OCTOBER 12-15, 1988. AM J HUM GENET 43 (3 SUPPL.). 1988. A208. 1988

CODEN: AJHGA DOCUMENT TYPE: Meeting RECORD TYPE: Citation LANGUAGE: ENGLISH

7/7/55 DIALOG(R)File 5:Biosis Previews(R) (c) 2001 BIOSIS. All rts.

05810440 BIOSIS NO.: 000034033589
CLONING AND STUDY OF THE TRANSFERRIN GENE IN MOUSE AUTHOR: CRAMMATIKAKIS N; PAPACONSTANTINOU J AUTHOR ADDRESS: UNIV. TEXAS MED. BRANCH, GALVESTON. JOURNAL: TWENTY-SEVENTH ANNUAL MEETING OF THE AMERICAN SOCIETY FOR CELL BIOLOGY, ST. LOUIS, MISSOURI, USA, NOVEMBER 16-20, 1987. J CELL BIOL 105 (4 PART 2). 1987. 154A. 1987 CODEN: JCLBA DOCUMENT TYPE: Meeting RECORD TYPE: Citation LANGUAGE: ENGLISH

7/7/56 DIALOG(R)File 5:Biosis Previews(R) (c) 2001 BIOSIS. All rts.

05807985 BIOSIS NO.: 000034031134
EXPRESSION OF THE HUMAN TRANSFERRIN TF GENE
AUTHOR: ADRIAN G S; YANG F; BOWMAN B H
AUTHOR ADDRESS: UNIV. TEX. HEALTH SCI. CENT. SAN
ANTONIO, TEX. 78284.
JOURNAL: 38TH ANNUAL MEETING OF THE AMERICAN S

JOURNAL: 38TH ANNUAL MEETING OF THE AMERICAN SOCIETY JOURNAL: 38TH ANNUAL MEETING OF THE AMERICAN SOCIETY OF HUMAN GENETICS, SAN DIEGO, CALIFORNIA, USA, OCTOBER 7-10, 1987. AM J HUM GENET 41 (3 SUPPL.), 1987. A204. 1987 CODEN: AJHGA DOCUMENT TYPE: Meeting RECORD TYPE: Citation LANGUAGE: ENGLISH

7/7/64 DIALOG(R)File 5:Biosis Previews(R) (c) 2001 BIOSIS. All rts. reserv.

05308267 BIOSIS NO.: 000032031396

AND IN-VITRO EXPRESSION HUMAN TRANSFERRIN TF GENE CONSERVED 5' SEQUENCES

AUTHOR: ADRIAN G S; YANG F; BOWMAN B H

AUTHOR ADDRESS: UNIV. TEX. HEALTH SCI. CENT., SAN ANTONIO, TEX.

AM J HUM GENET 39 (3 SUPPL.). 1986. A185. 1986 OF HUMAN GENETICS, PHILADELPHIA, PA., USA, NOV. 2-5, 1986. CODEN: AJHGA DOCUMENT TYPE: Meeting RECORD TYPE: Citation JOURNAL: 37TH ANNUAL MEETING OF THE AMERICAN SOCIETY

reserv. 7/7/67 DIALOG(R)File 5:Biosis Previews(R) (c) 2001 BIOSIS. All rts LANGUAGE: ENGLISH

ESTROGEN REGULATION OF THE AVIAN TRANSFERRIN GENE IN 05162883 BIOSIS NO.: 000082003504

SGENIC MICE pr: hammer r e; idzerda r l; brinster r l; mcknight

JOURNAL: MOL CELL BIOL 6 (4), 1986. 1010-1014. 1986 FULL JOURNAL NAME: Molecular and Cellular Biology CODEN: MCEBD MED., UNIV. PA., PHILADELPHIA, PA. 19104. AUTHOR ADDRESS: LAB. REPRODUCTIVE PHYSIOL., SCH. VET

offspring, and the third line had two- to threefold-higher levels in offspring studied maintained stable levels in expression in successive generations of after chronic or acute estrogen exposure. Two of the three mouse lines produce lines of mice containing integrated copies of the chicken gene. than in the original parent. In the third-line, the original transgenic parent tissues, and the response of the gene to estrogen stimulation was measured fertilized mouse eggs, and the resulting transgenic animals were used to ABSTRACT: The intact chicken transferrin genes was microinjected into RECORD TYPE: Abstract IANGUAGE: ENGLISH foreign gene was induced by estrogen administration. After 10 days of indicating that the tissue specificity was only partial. In all three lines, the of chicken transferrin mRNA in kidney were higher than expected, was found to be a mosaic. The chicken transferrin gene was expressed at levels of expression of the chicken gene were quantitated in various 10- to 20-fold-higher levels in liver than in any tissue; however, the levels

specificity and steroid regulation that can be recognized in mice. with 2.2 kilobases of 5' flanking sequence contains signals for both tissue of albumin mRNA and its rate of transcription declined about twofold after estrogen administration. Our results indicate that the intact chicken gene As a control the levels of mouse albumin were measured, and both the level estradiol led to a fourfold increase in transferrin mRNA synthesis at 4 h. gen administration, there was a twofold increase in both transferrin A and transcription of the chicken transferrin gene. A single injection

9/6/1 10463257 BIOSIS NO.: 199699084402

cells with antisense inhibition of receptor expression. 1996 Transferrin receptor-independent uptake of diferric transferrin by human hepatoma

CONJUGATES AN EFFICIENT WAY TO INTRODUCE DNA INTO HEMATOPOIETIC CELLS 1990 RECEPTOR-MEDIATED ENDOCYTOSIS OF TRANSFERRIN-POLYCATION 9/6/2 07248171 BIOSIS NO.: 000090028047

9/6/3 07232817 BIOSIS NO.: 000090012690 TRANSFERRIN-POLYCATION CONJUGATES AS CARRIERS FOR DNA

EXPRESSION OF HUMAN CHIMERIC TRANSFERRIN GENES 1990 9/6/4 07115437 BIOSIS NO.: 000039052131

9/6/5 06988486 BIOSIS NO.: 000089089750

EXPRESSION OF THE AMINO-TERMINAL HALF-MOLECULE OF HUMAN SERUM TRANSFERRIN IN CULTURED CELLS AND CHARACTERIZATION OF THE RECOMBINANT PROTEIN 1990

THE PREPARATION OF POLY-DT-5- TRANSFERRIN CONJUGATES AND HYBRIDIZATION STUDIES WITH POLY-DA-TAILED LINEARIZED PBR322 9/6/6 06235208 BIOSIS NO.: 000086069390

BINDING OF DNA TO ALBUMIN AND TRANSFERRIN MODIFIED BY TREATMENT WITH WATER-SOLUBLE CARBODIIMIDES 1986 9/6/7 05182601 BIOSIS NO.: 000082023222

AS WELL AS IN MAN BY DIRECT IN-SITU HYBRIDIZATION 1984 MAPPING OF THE TRANSFERRIN GENE IN LABORATORY RATS AND MICE 9/6/8 04663668 BIOSIS NO.: 000079076705

HUMAN TRANSFERRIN COMPLEMENTARY DNA CHARACTERIZATION AND CHROMOSOMAL LOCALIZATION 1984 9/6/9 04329766 BIOSIS NO.: 000078059310

CLONING OF DOUBLE STRANDED DNA TRANSCRIBED FROM RAT TRANSFERRIN MESSENGER RNA 1984 9/6/10 04313739 BIOSIS NO.: 000078043282

TRANSFERRIN RECEPTOR 1983 ISOLATION OF COMPLEMENTARY DNA CLONES FOR THE HUMAN 9/6/11 04241248 BIOSIS NO.: 000077067293

TRANSFERRIN COMPLEMENTARY DNA 1984 IDENTIFICATION CHARACTERIZATION AND MAPPING HUMAN 9/6/12 04136239 BIOSIS NO.: 000027045791

AEROBACTIN MEDIATED UTILIZATION OF TRANSFERRIN IRON 1982 9/6/13 03935782 BIOSIS NO.: 000076021348

reserv 9/7/4 DIALOG(R)File 5:Biosis Previews(R) (c) 2001 BIOSIS. All rts.

EXPRESSION OF HUMAN CHIMERIC TRANSFERRIN GENES 07115437 BIOSIS NO.: 000039052131 AUTHOR: ADRIAN G S; RIEHL R; HERBERT D C; WEAKER F J; PAUERSTEIN C J; ET AL ADRIAN E K; ROBINSON L K; WALTER C A; EDDY C A;

MOLECULAR AND CELLULAR BIOLOGY NEW SERIES, VOL. 123 (UNIVERSITY OF CALIFORNIA-LOS ANGELES) SYMPOSIA ON HEALTH SCI. CENT., SAN ANTONIO, TEX. 78284, USA. AUTHOR ADDRESS: DEP. CELL. STRUCT. BIOL., UNIV. TEX NEW YORK, NEW YORK, USA. ILLUS. ISBN 0-471-56721-3. 0 (0). 1990. 365-378. 1990 CODEN: USMBD RECORD TYPE: Citation NEW MEXICO, USA, MARCH 4-10, 1989. XVII+430P. WILEY-LISS: MOLECULAR BIOLOGY OF AGING; COLLOQUIUM, SANTE FE, JOURNAL: FINCH, C. E. AND T. E. JOHNSON (ED.). UCLA LANGUAGE: ENGLISH

CHARACTERIZATION OF THE RECOMBINANT PROTEIN AUTHOR: FUNK W D; MACGILLIVRAY R T A; MASON A B; BROWN EXPRESSION OF THE AMINO-TERMINAL HALF-MOLECULE OF 9/7/5 DIALOG(R)File 5:Biosis Previews(R) (c) 2001 BIOSIS. All rts. HUMAN SERUM TRANSFERRIN IN CULTURED CELLS AND 06988486 BIOSIS NO.: 000089089750

AUTHOR ADDRESS: DEPARTMENT OF BIOCHEMISTRY, S A; WOODWORTH R C COLUMBIA V6T 1W5. UNIVERSITY OF BRITISH COLUMBIA, VANCOUVER, BRITISH

analyzed, there is a probable leader sequence encoded by 57 nucleotides

followed by 2037 nucleotides that encode the homologous amino and

introduced into Escherichia coli. As judged by NaDoSO4-polyacrylamide oligonucleotide-directed mutagenesis in vitro, two translational stop codons mRNA, as a hybridization probe. The full-length human cDNA clone oligonucleotide, complementary to the 5' region of human transferrin CODEN: BICHA RECORD TYPE: Abstract LANGUAGE: ENGLISH JOURNAL NAME: Biochemistry JOURNAL: BIOCHEMISTRY 29 (6). 1990. 1654-1660. 1990 FULL coding for the natural signal sequence, the hTF/2N lobe, and the two stop and a HindIII site were introduced after the codon for Asp-337. transferrin, the 3' untranslated region, and a poly(A) tail. By use of isolated from this screen contained part of the 5' untranslated region, the protein. Addition of m-fluorotyrosine to the culture medium resulted in half-molecule, but to show a higher degree of monodispersity than the latter hTF/2N appeared to behave identically with the proteolytically derived iron-binding titration, and proton NMR. By these criteria, the recombinant urea-PAGE, amino-terminal sequence analysis, UV-visible spectroscopy, Polyanion SI. The purified protein was charcterized by NaDodSO4-PAGE, chromatography steps on DEAE-Sephacel, Sephadex G-75, and FPLC on 20 mg of recombinant hTF/2N per liter of tissue culture medium. promoter and the human growth hormone termination sequences. Baby expression of hTF/2N was controlled by the mouse metallothionein codons was cloned into the expression vector pNUT, such that the recombinant hTF/2N in eukaryotic cells. In this case, a DNA fragment Concurrently, we developed a plasmid vector for the expression of fragment was inserted into two different expression vectors that were then complete coding region for the signal peptide and the two lobes of ABSTRACT: A human liver cDNA library was screened with a synthetic tyrosine. Purified recombinant 19F-Tyr hTF/2N gave four well-resolved Recombinant hTF/2N was purified from the medium by successive hamster kidney cells containing this hTF/2N-pNUT plasmid secreted up to hTF/2N was undectable in bacteria transformed by these plasmids gel electrophoresis and Western blot analysis, however, recombinant 19F NMR resonances of 20-40 Hz line width, two with suggestions of random incorporation of this amino acid into cellular protein in lieu of

9/7/9 DIALOG(R)File 5:Biosis Previews(R) (c) 2001 BIOSIS. All rts.

AUTHOR ADDRESS: DIV. GENETICS, UNIV. TEXAS HEALTH SCI L; VAN BRAGT P H; BALDWIN W D; BOWMAN B H AUTHOR: YANG F; LUM J B; MCGILL J R; MOORE C M; NAYLOR S CHARACTERIZATION AND CHROMOSOMAL LOCALIZATION HUMAN TRANSFERRIN COMPLEMENTARY DNA 04329766 BIOSIS NO.: 000078059310 CENT. SAN ANTONIO 7703 FLOYD CURL DRIVE, SAN ANTONIO,

mixed oligonucleotide probe. Within the 2.3 kbase pairs of Tf cDNA encoding Tf were isolated by screening an adult human liver library with chromosomal location. Recombinant plasmids containing human cDNA CODEN: PNASA RECORD TYPE: Abstract LANGUAGE: ENGLISH identifying and characterizing its c[complementary]DNA and mapping its Antigen p97 and the Tf receptor genes have been mapped on human Sciences of the United States of America FULL JOURNAL NAME: Proceedings of the National Academy of JOURNAL: PROC NATL ACAD SCI U S A 81 (9). 1984. 2752-2756. 1984 chromosome 3. The characterization of the Tf gene was initiated by lactotransferrin, ovotransferrin, melanoma antigen p97 and HuBlym-1. serum. It shares homologous amino acid sequences with 4 other proteins: ABSTRACT: Transferrin (Tf) is the major Fe binding protein in vertebrate

carboxyl domains were strongly conserved, possibly reflecting functional carboxyl domains. During evolution, 3 areas of the homologous amino and Tf, Tf receptor, and melanoma p97 loci. located at q21-25 on human chromosome 3, consistent with linkage of the constraints associated with Fe binding. Chromosomal mapping by in situ hybridization and somatic cell hybrid analysis indicates that the Tf gene is

reserv 9/7/10 DIALOG(R)File 5:Biosis Previews(R) (c) 2001 BIOSIS. All rts

04313739 BIOSIS NO.: 000078043282

CLONING OF DOUBLE STRANDED DNA TRANSCRIBED FROM RAT TRANSFERRIN MESSENGER RNA

SALIKHOV T A; GAITSKHOKI V S AUTHOR ADDRESS: INST. MOL. BIOL., ACAD. SCI. USSR, AUTHOR: RYSKOV A P; TIMCHENKO N A; TIMCHENKO L T;

MOSCOW, USSR.

RECORD TYPE: Abstract LANGUAGE: RUSSIAN NAL: MOL BIOL (MOSC) 18 (1). 1984. 104-114. 1984 FULL NAL NAME: Molekulyarnaya Biologiya (Moscow) CODEN: MOBIB

transferrin mRNA sequences were identified using colony hybridization and cloned as recombinant plasmid derivatives of pBR322. The insert length in polypeptide identical to pretransferrin in antigenic properties and MW. rat liver poly(A)+RNA that programmed the cell-free synthesis of a cell-free translation test, cloned plasmid DNA hybridized specifically with mRNA in its MW (0.86 MD [mean deviation]). In hybridization selection translated DNA from transformed clones hybridized with a single Southern blot hybridization with 32P-c[complementary]DNA probe. Nickthese plasmids varied from 150-1500 bp [base pairs]. Clones carrying DNA polymerase I. Double-stranded transcripts of transferrin mRNA were using purified rat transferrin mRNA as a template, reverse transcriptase and ABSTRACT: Two-stage synthesis of double-stranded DNA was performed component of rat liver polysomal RNA that corresponded to transferrin

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04241248 BIOSIS NO.: 000077067293 ISOLATION OF COMPLEMENTARY DNA CLONES FOR THE HUMAN TRANSFERRIN RECEPTOR

CANCER RES. FUND, LINCOLN'S INN FIELDS, LONDON WC2A HOR: SCHNEIDER C; KURKINEN M; GREAVES M HOR ADDRESS: MEMBRANE IMMUNOL. LAB., IMPERIAL

Organization) Journal CODEN: EMJOD RECORD TYPE: Abstract JOURNAL: EMBO (EUR MOL BIOL ORGAN) J 2 (12). 1983. 2259-2264 LANGUAGE: ENGLISH 1983 FULL JOURNAL NAME: EMBO (European Molecular Biology

selection. Two clones, pTR-48 and pTR-67, were able to hybridize the by polysome immuno-adsorbed chromatography with monospecific rabbit human placenta. mRNA coding for transferrin receptor (TR) was enriched clones was constructed from sucrose gradient-fractionated mRNA from the probe made from immunoselected mRNA were then subjected to hybrid poly(A)+ RNA of the polysome fraction that failed to bind to protein-A 32P-labeled cDNA synthesized from immunoselected TR mRNA and from Sepharose. Plasmids isolated from colonies showing hybridization only to IgG and protein-A Sepharose. The library was screened for hybridization to ABSTRACT: A c[complementary]DNA clone bank containing 30,000

reserv. 9/7/12 DIALOG(R)File 5:Biosis Previews(R) (c) 2001 BIOSIS. All rts.

04136239 BIOSIS NO.: 000027045791

> AUTHOR: YANG F; LUM J B; MCGILL J R; MOORE C M; VAN BRAGT P H; BALDWIN W D; BOWMAN B H IDENTIFICATION CHARACTERIZATION AND MAPPING HUMAN TRANSFERRIN COMPLEMENTARY DNA

ANTONIO, TEX. 78284. AUTHOR ADDRESS: UNIV. TEX. HEALTH SCIENCE CENTER, SAN

DOCUMENT TYPE: Meeting RECORD TYPE: Citation LANGUAGE: ENGLISH 1984. J CELL BIOCHEM 0 (8 PART A). 1984. 42. 1984 CODEN: JCBSD ANGELES) SYMPOSIA, LOS ANGELES, CALIF., USA, FEB. 11-17, 13TH ANNUAL UCLA (UNIVERSITY OF CALIFORNIA - LOS JOURNAL: SYMPOSIUM ON GENES AND CANCER HELD AT THE

and lipoplexes, 2001 Novel gene delivery systems: Complexes of fusigenic polymer-modified liposomes 10/6/1 12895868 BIOSIS NO.: 200100103017

2000 Rev-binding aptamer and CMV promoter act as decoys to inhibit HIV replication 10/6/2 12786756 BIOSIS NO.: 200000540379

10/6/3 12731730 BIOSIS NO.: 200000485232

1999 Rev-binding aptamer and CMV promoter act as decoys to inhibit HIV replication

10/6/4 12647088 BIOSIS NO.: 200000400590

acquisition and infection. 2000 Requirement of the Pseudomonas aeruginosa tonB gene for high-affinity iron

Successful transfection of lymphocytes by ternary lipoplexes. 10/6/5 12561353 BIOSIS NO.: 200000314855

Antigen-specific induction of peripheral T cell tolerance in vivo by codelivery of DNA vectors encoding antigen and Fas ligand. 2000 10/6/6 12481942 BIOSIS NO.: 200000235444

Trafficking of Glut4-Green Fluorescent Protein chimaeras in 3T3-L1 adipocytes suggests distinct internalization mechanisms regulating cell surface Glut4 levels. 1999 10/6/7 12330172 BIOSIS NO.: 200000083674

transfer to human renal cell carcinoma in vitro. 1999 Antibody-mediated endocytosis of G250 tumor-associated antigen allows targeted gene 10/6/8 12328409 BIOSIS NO.: 200000081911

displacement chromatography. 1999 Separation of plasmid DNA from protein and bacterial lipopolysaccharides using 10/6/ 9 12001050 BIOSIS NO.: 199900281569

10/6/10 11840735 BIOSIS NO.: 199900086844 Gene transfer by DNA-gelatin nanospheres. 1999

Invasion of Caco-2 cells and iron-acquiring mechanisms by enterovirulent Escherichia coli isolates. 1998 10/6/11 11769149 BIOSIS NO.: 199900015258

Enhanced reporter gene expression in cells transfected in the presence of DMI-2, acid nuclease inhibitor. 1998 10/6/12 11697735 BIOSIS NO.: 199800479466 ŝ

Controlled gene delivery by DNA-gelatin nanospheres. 1998 10/6/13 11656641 BIOSIS NO.: 199800438372

Enhancement of cationic liposome-mediated transfection by lactoferrin. 1998 10/6/14 11609830 BIOSIS NO.: 199800391593

Stabilization of gene delivery systems by freeze-drying. 1997 10/6/15 11224430 BIOSIS NO.: 199800005762

> Development of gene transfer strategies for the treatment of neuroblastoma. 1997 10/6/16 10909445 BIOSIS NO.: 199799530590

10/6/17 10787982 BIOSIS NO.: 199799409127

acquisition of iron from heme and hemoglobin. 1997 gene whose product is homologous to eukaryotic hem Utilization of host iron sources by Corynebacterium diphtheriae: Identification of a oxygenases and is required for

10/6/18 10513372 BIOSIS NO.: 199699134517

Abrogation of p27-Kip1 by cDNA antisense suppresses quiescence (G-0 state)

Role of catechol siderophore synthesis in Vibrio vulnificus virulence. 1996 10/6/19 10467929 BIOSIS NO.: 199699089074

Glycerol enhancement of ligand-polylysine/DNA transfection. 10/6/20 10384665 BIOSIS NO.: 199699005810

Identification of a locus involved in the utilization of iron by Haemophilus influenzae. 0/6/21 09503150 BIOSIS NO.: 199497511520

CCC.UGA: A new site of ribosomal frameshifting in Escherichia coli. 1994 |0/6/22 09362564 BIOSIS NO.: 199497370934

Induction of oxidative single- and double-strand breaks in DNA by ferric citrate. 1993 10/6/23 08935853 BIOSIS NO.: 199396087354

encoding a 27 kDa surface lipoprotein (P27) and its overexpression in Escherichia coli Isolation and analysis of a linear plasmid-located gene of Borrelia burgdorferi B29 10/6/24 08923461 BIOSIS NO.: 199396074962

Systemic immunological effects of cytokine genes injected into skeletal 10/6/25 08888980 BIOSIS NO.: 199396040481 muscle.

1993

Presence of a capsule in Vibrio vulnificus biotype 2 and its relationship to virulence for 10/6/26 08878125 BIOSIS NO.: 199396029626

SIDEROPHORES 1991 YERSINIA-RUCKERI PRODUCES FOUR IRON-REGULATED OUTER MEMBRANE PROTEINS BUT DOES NOT PRODUCE DETECTABLE 10/6/27 08113399 BIOSIS NO.: 000093112747

10/6/28 08050149 BIOSIS NO.: 000093083497
MAINTENANCE OF LIVER FUNCTION IN LONG TERM CULTURE OF HEPATOCYTES FOLLOWING IN-VITRO OR IN-VIVO HA-RAS-E-J TRANSFECTION 1991

BIOLOGY TO DIAGNOSIS 1991 VIRULENCE-ASSOCIATED FACTORS OF SALMONELLA FROM MOLECULAR 10/6/29 07974309 BIOSIS NO.: 000093041887

EFFECTS OF VARIOUS CHEMICAL AGENTS ON THE TRANSFORMATION OF RAT FIBROBLASTS BY AN ACTIVATED C-HA-RAS ONCOGENE 1989 10/6/30 06846793 BIOSIS NO.: 000089005985

RON REGULATION OF SERRATIA-MARCESCENS HEMOLYSIN GENE 10/6/31 06573630 BIOSIS NO.: 000087015791

ADENOVIRUS AND ADENOVIRUS DNA 1987 TRANSFORMATION OF DIFFERENTIATED RAT 10/6/32 06054493 BIOSIS NO.: 000085017642 HEPATOCYTES WITH

THE GENETICS OF PLASMID MEDIATED VIRULENCE IN THE MARINE FISH PATHOGEN VIBRIO-ANGUILLARUM 1983 10/6/33 04051254 BIOSIS NO.: 000026044314

10/6/34 03828780 BIOSIS NO.: 000075006853
CHARACTERIZATION OF THE TRANSLATION PRODUCTS OF THE MAJOR MESSENGER RNA SPECIES FROM RABBIT LACTATING MAMMARY GLANDS AND CONSTRUCTION OF BACTERIAL RECOMBINANTS CONTAINING CASEIN AND A LACT ALBUMIN COMPLEMENTARY DNA 1982

10/6/35 03289746 BIOSIS NO.: 000072017849 OUTER MEMBRANE PROTEINS INDUCED UNDER CONDITIONS OF IRON LIMITATION IN THE MARINE FISH PATHOGEN VIBRIO-ANGUILLARUM 775 1981

10/6/36 03253321 BIOSIS NO.: 000071066432
REGULATION OF GENE TRANSCRIPTION BY ESTROGEN AND PROGESTERONE LACK OF HORMONAL EFFECTS ON TRANSCRIPTION BY ESCHERICHIA-COLI RNA POLYMERASE 1980
ESCHERICHIA-COLI RNA POLYMERASE 1980

EL IRON UPTAKE SYSTEM SPECIFIED BY COL-V PLASMIDS AN ORTANT COMPONENT IN THE VIRULENCE OF INVASIVE STRAINS OF ESCHERICHIA-COLI 1979

10/6/38 02876089 BIOSIS NO.: 000019046707 A PLASMID ASSOCIATED WITH VIRULENCE IN THE MARINE FISH PATHOGEN VIBRIO-ANGUILLARUM SPECIFIES AN IRON SEQUESTERING SYSTEM 1980